



| FORM PTO-1449 | | | ATTY. DOCKET NO. I-2-0203.3US | SERIAL NO. 10/085,288 14/02.5 187 CJR 2/9/07 | | | |
|--|--|-----------------|----------------------------------|--|-------|----------|----------------------------|
| U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | | | APPLICANT Joseph A. Kwak | | | | |
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| U.S. PATENT DOCUMENTS | | | | | | | |
| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
| DR | | 4,912,705 | 03/1990 | Paneth et al. | | | |
| | | 5,101,406 | 03/1992 | Messenger | | | |
| | | 5,280,498 | 01/1994 | Tymes et al. | | | |
| | | 5,345,439 | 09/1994 | Marston | | | |
| | | 5,345,600 | 09/1994 | Davidson | | | |
| | | 5,351,016 | 09/1994 | Dent | | | |
| | | 5,544,196 | 08/1996 | Tiedemann, Jr. et al. | | | |
| | | 5,570,369 | 10/1996 | Jokinen | | | |
| | | 5,648,969 | 07/1997 | Pasternak et al. | | | |
| | | 5,657,325 | 08/1997 | Lou et al. | | | |
| | | 5,715,260 | 02/1998 | Black et al. | | | |
| | | 5,729,557 | 03/1998 | Gardner et al. | | | |
| | | 5,828,677 | 10/1998 | Sayeed et al. | | | |
| | | 5,838,267 | 11/1998 | Wang et al. | | | |
| | | 5,918,156 | 06/1999 | Tanabe | | | |
| | | 5,946,320 | 08/1999 | Decker | | | |
| | | 5,956,624 | 09/1999 | Hunsinger et al. | | | |
| | | 5,982,760 | 11/1999 | Chen | | | |
| | | 5,983,382 | 11/1999 | Pauls | | | |
| | | 5,983,383 | 11/1999 | Wolf | | | |
| | | 5,983,384 | 11/1999 | Ross | | | |
| | | 6,021,124 | 02/2000 | Haartsen | | | |
| | | 6,049,549 | 04/2000 | Ganz et al. | | | |
| DR | | 6,064,692 | 05/2000 | Chow | | | |
| | | 6,128,276 | 10/2000 | Agee | | | |
| DR | | 6,130,918 | 10/2000 | Humphrey et al | | | |
| EXAMINER /Daniel Ryman/ | | | | DATE CONSIDERED 01/30/2007 | | | |

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|--|--|----------------------------------|------------------------------------|
| FORM PTO-1449 | | ATTY. DOCKET NO. I-2-0203.3US | SERIAL NO. 10/085,298 10/035187 |
| U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | | APPLICANT Joseph A. Kwak | |
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| (Use several sheets if necessary) | | | |

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U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
|------------------|--|-----------------|---------|-----------------------|-------|----------|----------------------------|
| DR | | 6,134,694 | 10/2000 | Uebayashi et al. | | | |
| | | 6,138,260 | 10/2000 | Ketseoglou | | | |
| | | 6,145,108 | 11/2000 | Ketseoglou | | | |
| | | 6,154,489 | 11/2000 | Kleider et al. | | | |
| | | 6,189,123 | 02/2001 | Anders Nystrom et al. | | | |
| | | 6,208,663 | 03/2001 | Schramm et al. | | | |
| | | 6,212,240 | 04/2001 | Scheibel, Jr. et al. | | | |
| | | 6,212,659 | 04/2001 | Zehavi | | | |
| | | 6,233,711 | 05/2001 | Murayama et al. | | | |
| | | 6,262,994 | 07/2001 | Dirschel et al. | | | |
| | | 6,272,183 | 08/2001 | Berens et al. | | | |
| | | 6,275,488 | 08/2001 | Cudak et al. | | | |
| | | 6,289,003 | 09/2001 | Raitola et al. | | | |
| | | 6,308,294 | 10/2001 | Ghosh et al. | | | |
| | | 6,317,418 | 11/2001 | Raitola et al. | | | |
| | | 6,359,877 | 03/2002 | Rathonyi et al. | | | |
| | | 2002/0037058 | 03/2002 | Birru | | | |
| | | 6,366,601 | 04/2002 | Ghosh et al. | | | |
| | | 6,370,669 | 04/2002 | Eroz et al. | | | |
| | | 2002/0064167 | 05/2002 | Khan et al. | | | |
| | | 6,449,246 | 09/2002 | Barton et al. | | | |
| | | 6,470,391 | 10/2002 | Takamoto et al. | | | |
| | | 2002/0191544 | 12/2002 | Cheng et al. | | | |
| ▼ | | 6,522,650 | 02/2003 | Yonge et al. | | | |
| DR | | 2003/0039226 | 02/2003 | Kwak | | | |

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|----------------------------|-------------------------------|
| EXAMINER /Daniel Ryman/ | DATE CONSIDERED 01/30/2007 |
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|--|--|----------------------------------|-------------------------------------|
| FORM PTO-1449 | | ATTY. DOCKET NO. I-2-0203.3US | SERIAL NO. 10/085,268 10/097,127 |
| U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | | APPLICANT Joseph A. Kwak | |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | | FILING DATE February 27, 2002 | GROUP 2662 |
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U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
|------------------|--|-----------------|---------|------------------|-------|----------|----------------------------|
| DR | | 6,529,561 | 03/2003 | Sipola | | | |
| | | 6,587,985 | 07/2003 | Fukushima et al. | | | |
| | | 6,647,076 | 11/2003 | Schenk et al. | | | |
| | | 6,735,180 | 05/2004 | Malkamaki et al. | | | |
| ↓ | | 6,760,860 | 07/2004 | Fong et al. | | | |
| ↓ | | 6,931,569 | 08/2005 | Fong et al. | | | |
| DR | | 2002/0034182 | 02/2002 | Mallory | | | |

FOREIGN PATENT DOCUMENTS

| | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION | |
|----|--|-----------------|---------|-----------------|-------|----------|-------------|----|
| | | | | | | | YES | NO |
| | | 1275279 | 02/1999 | CN ¹ | | | | X |
| DR | | 1277766 | 12/2000 | CN ² | | | | X |
| | | 1132772 | 01/2004 | CN | | | | |
| | | 07-336331 | 12/2005 | JP | | | X** | |
| | | 2000-507777 | 06/2000 | JP | | | | X |
| | | 2001-103034 | 04/2001 | JP | | | X** | |
| DR | | 2003/0004618 | 01/2003 | KR | | | | X |
| | | 97118086 | 07/1999 | RU | | | | X |
| | | 2179370 | 02/2002 | RU | | | | X |
| | | 2195768 | 12/2002 | RU | | | | X |
| | | 2195089 | 12/2002 | RU | | | | |
| | | 2001126714 | 07/2003 | RU | | | | X |
| | | 2210864 | 08/2003 | RU | | | | |
| | | 2002101733 | 08/2003 | RU | | | | |

¹ corresponds to WO 99/09698 ² corresponds to WO 99/12303

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| FORM PTO-1449 | | ATTY. DOCKET NO. I-2-0203.3US | SERIAL NO. 10/085,288 10/085,487 |
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| (Use several sheets if necessary) | | | |

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10/085,288
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FOREIGN PATENT DOCUMENTS

| | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION | |
|----|---|-----------------|---------|---------|-------|----------|-------------|----|
| | | | | | | | YES | NO |
| | | 2221338 | 01/2004 | RU | | | | X |
| | | 2221339 | 01/2004 | RU | | | | X |
| | | 2235432 | 08/2004 | RU | | | | X |
| DR | * | 0797327 | 09/1997 | EP | | | | |
| DR | * | 0859475 | 08/1998 | EP | | | | |

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

| | | |
|----|---|---|
| DR | | "Hybrid ARQ Methods for FDD in Release in 2000," TSG-RAN Working Group 1 Meeting #14, Oulu, Finland, July 4-7, 2000. |
| DR | | "Physical Layer Aspects of UTRA High Speed Downlink Packet Access," 3GPP TR 25.848 V4.0.0 (2001-03), pp. 1-89. |
| | | Rohling, Hermann et al. "Performance Comparison of Different Multiple Access Schemes for the Downlink of an OFDM Communication System", 1997 IEEE 47 th Vehicular Technology Conference, May 1997, vol. 3, p. 1368. |
| DR | | 3GPP TR 25.848 V4.0.0 (2001-03), 3 rd Generation Partnership Project; Technical Specification Group Radio Access Network; Physical layer aspects of UTRA High Speed Downlink Packet Access (Release 4), p. 50. |
| DR | * | Eriksson et al. "Comparison of Link Quality Control Strategies for Packet Data Services in EDGE." Vehicular Technology Conference, 1999 IEEE. May 16, 1999, pp. 938-942. |
| DR | * | Sayeed, "Throughput Analysis and Design of Fixed and Adaptive ARQ/Diversity Systems for Slow Fading Channels." Global Telecommunications Conference, 1998. November 8, 1998, pp. 3686-3691. |
| DR | * | Shiozaki et al. "A Hybrid ARQ Scheme With Adaptive Forward Error Correction for Satellite Communications." IEEE Transactions on Communications, April 1, 1991, pp. 482-484. |
| DR | * | Bakhtiyari et al. "Practical Implementation of a Mobile Data Link Protocol With A Type II Hybrid ARQ Scheme and Code Combing." Personal Communication - Freedom Through Wireless Technology. Proceedings of the Vehicular Technology Conference, May 18, 1993, pp. 774-777. |

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|----------------------------|-------------------------------|
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|----------------------------|-------------------------------|

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